

Amateur Computer Group

of New Jersey

CLUB NEWS

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NOVEMBER 1984

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PC PANEL
November 2
Meeting at
M.C.C.

The SIG/M Report



by Steve Leon

What has the future in store for public domain CP/M software? We all know that new 8080 and Z80 commercial software is just about dead. The bucks are in the IBM machine - and even DRI seems to be treading water with Concurrent CP/M. Is the future of 8080 software to be version xxx of SD or MDMxxx that comes on screen in version 999 with a picture of Irv Hoff and a Z80?

Where are the hackers? As more and more people get computers in the IBM mode, we see off-the-shelf software designed to run with no changes by the user. Even configuration is a thing of the past. Commercial software is advertised on TV and it takes seven figure money to hit the top 10. More and more of the people attempting to get their software into the SIG/M library and use our distribution facilities are not 'donating' - but are asking for contributions for their 'freeware.'

Yet the library keeps on growing! This month we have six more volumes. So perhaps CP/M is not dead. It will be if you and I stop writing software or leave the operations of SIG/M and ACGNJ to 'the other guy.' How about it, shall we keep this operation going or are we going to sit and bicker and let someone else do it?

Work is going ahead on the 1985 Trenton Computer Festival and help is needed. The April Festival will be the 10th annual bash and, as they say, it will be bigger and better. We will be in the new gym - with many, many more commercial booths. All booths will be draped, eight simultaneous lectures will be provided in private rooms in the gym. Additional parking and bus service will be provided. Ticket selling procedure will be improved, etc., etc.

Theme will be 'Computers and the next generation' and a contest will be held for the best essay from a middle or high school student on the subject 'What I will be doing with computers in 1995?' We hope to have a corporate sponsor for the contest with a first prize of a computer in the \$3,000 price range. Ideas, help, etc. for the Festival will be appreciated.

The new releases for November are listed below. Rich Conn has provided us with utilities for ZCPR3. Dr. Fritz-Rohner, a frequent library contributor, has provided us with an implementation a version of the Rivest-Shamir-Adleman approach to public key cryptography in Z80 Turbo Pascal.

Professor McIntosh (who hopefully will be at Trenton to demonstrate REC) has come up with an improved 8080 TO 8086 translator. We tested it on CompuServe users and found everyone was quite pleased.

Best selling SIG/M volume is 154 - which is F83 Forth version 1.0. We now have version 2.0 in both 8080 and 68000. (PC/BLUE library will be releasing it too in MSDOS).

SIG/M Vol 200

Utilities for ZCPR3
Volume 1 of 3

index	name	size	description
200.01	CLEANDIR.COM	2K	sort & pack utility
200.02	CMD .COM	1K	command line proc.
200.03	DPROG .COM	3K	sets printer, term.
200.04	DPROG .HQP	6K	HELP file for DPROG
200.05	DU3 .COM	12K	ZCPR3 disk utility
200.06	DU3 .HQP	25K	HELP file for DU3
200.07	MU3 .COM	3K	memory utility
200.08	MU3 .HQP	5K	HELP file for MU3
200.09	SHSET .COM	1K	command line shell
200.10	VFILER .COM	11K	file utility
200.11	VFILER .HQP	14K	HELP file - VFILER
200.12	VLIB .HQP	8K	screen library HELP
200.13	VLIB .REL	2K	screen routines
200.14	VMENU .COM	6K	file utility
200.15	VMENU .HQP	20K	HELP file for VMENU
200.16	VMENUCK .COM	3K	menu file checker
200.17	Z3LIB11 .REL	8K	utility library
200.18	Z3LIB .HQP	2K	utility library
200.19	Z3LIB1 .HQP	19K	HELP files
200.20	Z3LIB2 .HQP	4K	
200.21	Z3LIB3 .HQP	13K	
200.22	Z3LIB4 .HQP	12K	
200.23	Z3UTIL3 .HQP	5K	

SIG/M Vol 201

Utilities for ZCPR3
Volume 2 of 3

index	name	size	description
201.01	CLEANDIR.MQC	8K	ZCPR3 utilities
201.02	CMD .MQC	4K	source code
201.03	DEBUGRCP.AQM	20K	
201.04	DPROG .MQC	13K	
201.05	DU3 .MQC	54K	
201.06	MU3 .MQC	11K	
201.07	SHSET .MQC	3K	
201.08	VFILER .MQC	58K	
201.09	VMENU .MQC	36K	
201.10	VMENUCK .MQC	8K	

SIG/M Vol 202

ZCPR3 Library Source Code
Z80 Public Key Cryptography

index	name	size	description
202.01	ANYCODE .ASM	3K	sets printer from
202.02	ANYCODE .DQC	14K	Wordstar
202.03	RSA/T12 .LBR	75K	public key cryptog.
202.04	VID1 .MAC	1K	ZCPR3 library of
202.05	VID2 .MAC	1K	routines for screen
202.06	VID3 .MAC	1K	manipulation
202.07	VID4 .MAC	1K	
202.08	VID5 .MAC	1K	
202.09	VID6 .MAC	1K	
202.10	VID7 .MAC	5K	
202.11	VID8 .MAC	1K	
202.12	VID9 .MAC	2K	
202.13	VIDA .MAC	1K	
202.14	VIDB .MAC	1K	
202.15	VLAT .MAC	1K	
202.16	VLGYMSG.MAC	2K	
202.17	Z3MAC .LBR	99K	utility library

SIG/M Vol 203

CP/M 80 TO CP/M 86 Translator
Cross Referencing FIND

index	name	size	description
203.01	80T86 .LBR	114K	80 to 86 translator
203.02	CNVADV .HLP	40K	advanced CNVRT HELP
203.03	FFYNDE .A86	25K	FIND - with the
203.04	FFYNDE .ASM	23K	capability of
203.05	FFYNDE .CMD	5K	generating a cross-
203.06	FFYNDE .COM	4K	reference listing

index	name	size	description
204.01	F83 .COM	24K	compiled Forth
204.02	README .8Q	13K	v 1.0 F83 doc.
204.03	F83-FIXS.TQT	4K	changes from v 1.0
204.04	BASIC .BQK	5K	BASIC compiler in F83
204.05	CLOCK .BQK	3K	calendar example
204.06	CPU8080 .BQK	10K	8080 dependent code
204.07	EXPAND80.BQK	3K	source to EXPAND.HUF
204.08	EXTEND80.BQK	9K	extensions source
204.09	HUFFMAN .BQK	13K	compression program
204.10	KERNEL80.BQK	63K	kernel source
204.11	META80 .BQK	13K	metacompiler source
204.12	UTILITY .BQK	37K	utility source

index	name	size	description
205.01	F83 .68K	29K	compiled Forth
205.02	README .6Q	13K	v 1.0 F83 doc.
205.03	F83-FIXS.TQT	4K	changed from v 1.0
205.04	BASIC .BQK	5K	BASIC compiler in F83
205.05	CLOCK .BQK	3K	calendar example
205.06	CPU68000.BQK	16K	68000 dependent code
205.07	EXPAND68.BQK	3K	source to EXPAND.HUF
205.08	EXTEND68.BQK	9K	extensions source
205.09	HUFFMAN .BQK	13K	compression program
205.10	KERNEL68.BQK	61K	kernel source
205.11	META68 .BQK	14K	metacompiler source
205.12	UTILITY .BQK	36K	utility source

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Report of the Nominating Committee

The nomination committee recommends to the Board of Directors the following candidates for the election to be held at the December 7, 1984 meeting.

President Russell Gore
Vice President Bob Todd
Treasuer (to be selected)
Corresponding Secretary Robert Shrader
Recording Secretary Andrew Bender

Directors

Bill Earnest, Jeff Kashinsky, Rolf Levenback,
Bruce Ratoff, Richard Tillbrook, Alan Katz

NEW USER GROUPS TO BE FORMED

by Harry Van Tassell

At the September meeting an interest was expressed in the formation of two new user groups. Both groups would be primarily concerned with computer applications rather than the traditional hardware orientation of the existing user groups.

A business user group, to be known as "BUS", will allow those people who are concerned with everyday business applications to have a non technical forum in which to discuss the how and why one may apply desk top computers to their specific problems. A user group chairman must be found to before this group can be functional. One member of the audience said she would help but could not chair the group. Volunteers please stand up.

The second group, to be known as "ACT", is aimed at people who have a common interest in computer applications such as graphics, CAD/CAM, networks, advanced operating systems, communications, etc. The group's name stands for Advanced Concepts and Technology.

Anyone who wishes to participate in the formation and operation of either of these groups should contact Harry Van Tassell, 120 Hill Hollow Road, Watchung, NJ 07060 (201)755-5372.

DECEMBER MEETING

The December meeting of ACGNJ, to be held on Friday December 7, at 8 PM at the auditorium of Union County College, Cranford Campus, will feature a panel discussion on the topic of "Censorship of Computer Bulletin Boards."

Felony charges have been files by California authorities against a Los Angeles bulletin board system operator for allegedly allowing the posting of credit card and telephone access codes on his system. The California police originally seized all of his computer equipment apparently as a test case of the obligation of a bulletin board operator to purge "illegal" messages off the system.

As a result, bulletin board operators throughout the country are "running scared." ACGNJ has voted no censorship on its boards, but restrictions are cropping up all over for fear of equipment seizure. At the same time, a call to a local bulletin board produced instructions on building a "black box," a valid Visa Card and instructions on how to break into the Citibank computer.

What is or should be the position of the Club, the local authorities, the phone company, bulletin board operators, etc. on this topic. At the December meeting of ACGNJ representatives of the American Civil Liberties Union, the New Jersey Attorney General and New Jersey Bell will discuss the topic along with bulletin board operators in favor of and opposed to censorship.

Better be there early, it promises to be a lively and informative evening.

APPLE HACKS GOING FROM Z80 TO 6502 AND BACK

by Dave Barkovitch

Here is a handy program to go from CP/M (Z80) into the APPLE monitor (6502) mode. And then re-enter CP/M just as easily. It will switch the Z80 off and turn the 6502 on and then switch the 6502 off and turn the Z80 on when you want to return to CP/M.

The program is called MON.COM which is short for monitor and it is executed at the CP/M command level. When you execute the program it drops you off in the APPLE monitor and you will get the asterisk prompt *. A reminder message will appear at the top of the screen to return to CP/M.

Do whatever it is you would like to do in 6502 land and type 3D2G when you want to return to CP/M. While in the monitor it is possible to boot a disk by typing 6^P (six-control-P). Just be careful not to press reset or control-C when in the 6502 mode because that may clobber CP/M.

NOTE:

While in the monitor the Z80 to APPLE address translation table is in effect. You can disassemble 6502 code around the 3C0 area and observe 6502 machine language routines that the Z80 uses when it 'calls' APPLE sub-routines.

TYPING IN THE PROGRAM

Use DDT and the S (set) command to enter the hex data at the addresses shown. When you finish typing the data, type a period and control-C and then type SAVE 1 MON.COM. The file called 'MON.COM' should now be on your CP/M disk directory. To get into the APPLE just type MON.

A>MON

Besides the hex data, I have included the Z80 Source listing of the program in case you want to add some modifications of your own. I wrote the program with the SC-software APPLE Z80 MACRO CROSS ASSEMBLER.

HEX DATA STARTS AT ADDRESS 100

```
0100 11 13 01 0E 09 CD 05 00
0108 21 69 FF 22 D0 F3 2A DE
0110 F3 77 C7 1E 1B AA 0D 0A
0118 20 20 20 20 54 4F 20 52
0120 45 54 55 52 4E 20 54 4F
0128 20 5A 38 30 2D 4D 4F 44
0130 45 0D 0A 20 20 20 20 20
0138 20 20 54 59 50 45 2D 20
0140 33 44 32 47 3C 43 52 3E
0148 24 00 00 00 00 00 00 00
```

```
* MON.COM SOURCE CODE BY DAVE BARKOVITCH
*
BDOS .EQ 5
MON.SUB .EQ 0FF69H
      .OR 100H
BEGIN: LD DE,MSG      PRINT MESSAGE
      LD C,9H
      CALL BDOS
      LD HL,MON.SUB    GET ADDRESS
      LD (0F3D0H),HL   SET JSR VECTOR
      LD HL,(0F3DEH)    ZCARD.ADDR
APPLE: LD (HL),A        WRITE
      RST 00H          GETS HERE WHEN
                        6502 DOES RTS
MSG:   .HS 1E1BAA0D0A   ^ ESC * CLEAR SCREEN
      .AS /            TO RETURN TO Z80-MODE/
      .HS 0D0A
      .AS /            TYPE- 3D2G<CR>$/
END:
```

HAPPY HACKING

TRS-80 Model III 4 Disc Drive Tachometer

by Neal Broerman

CORRECTION

10/5/84

Dear Neil:

Thank you for publishing my article on measuring TRS-80 Model III disk speed.

Four typos showed up in Listing 2 which I failed to catch before. I sent it to you.

The corrected lines should read:

```
< 210 if ND>3 goto 200
   220 DN = 2^ ND (up arrow prints as left
                  bracket)
   240 Poke 32119,DN: Poke 32102,DN
```

My thanks to Morris Raskin for pointing out the problem to me.

Neal J. Broerman
ACG-NJ

General Meeting
Friday,
November 2, 1984
— at
Middlesex
County College
L'Hommedieu Hall
Feature
1985 Nominations
PC Panel Discussion
All types of Computers

Helpful DOS Utilities

by David Burhans, Jr.
Sacramento PC Users Group

I'd like to share with you a group of DOS 2.0 utilities which I use constantly and would sorely miss if they were suddenly taken from me. These commands "MORE, SORT, I, >, and <" have more uses than I will discuss here. If you find my examples helpful, you may read more about these commands in your DOS manual: Chapter 10, Advanced DOS Commands.

PROBLEM: You want to list a long file on the screen but it scrolls by faster than you can read it.

SOLUTION: Type the command

TYPE LONGFILE.BAS IMORE.

The IMORE portion of the command will cause the listing to stop after each screenful and wait for you to strike another key before continuing. If you would rather have the file listed on the printer, give the command

TYPE LONGFILE.BAS >PRN

The >PRN portion of the command redirects the output of the TYPE command so that it goes to the printer rather than to the screen.

PROBLEM: You want to see a sorted version of all or only a portion of your directory of files.

SOLUTIONS: Type:

DIR B:*. * ISORT IMORE

to see a sorted list of the files on drive B, a screenful at a time. Try DIR *.BAS ISORT >PRN to print a sorted list of all the .BAS files on the current drive and directory.

PROBLEM: You want to create a file on disk which contains a sorted list of some or all of the files in a given directory. **SOLUTIONS:** To create a file on a diskette which contains a sorted list of all the files on that diskette, type:

DIR *. * ISORT >ALLFILES.DAT

Now type:

TYPE ALLFILES.DAT I MORE

and see what you've got.

To create a file containing a sorted list of all of your >EXE files, try:

DIR *.EXE ISORT >EFILES.DAT.

PROBLEM: You have an ASCII text file that you would like to have sorted.

SOLUTION: The command

SORT (OLDFILE.TXT) NEWFILE.TXT

will cause SORT to read the file OLDFILE.TXT, sort the lines within it and write the sorted output to file NEWFILE.TXT. The command

SORT/R (OLDFILE.TXT) NEWFILE.TXT

will do the same thing, except it will reverse the sort (from Z to A). The command

SORT/+9 (OLD.TXT) NEW.TXT

will perform the sort starting at column 9, ignoring any data in the first 8 columns of each line in OLD.TXT.

Ctrl-Break from BASIC

by Doug Coan
Kentucky Indiana PC User's Group

The purpose of the routines below is to allow you to selectively disable Ctrl-Break from BASIC. They will run in both compiled and interpretive BASIC.

Lines 100-172 save the current Ctrl-Break pointer so it may be restored to working order when your program is finished. Lines 181-240 disable Ctrl-Break by pointing to a dummy interrupt return location deep in the heart of BIOS. Lines 245-330 restore Ctrl-Break to full working order by using the information picked up in the first routine.

I can recommend reading pages 3-21 and A-79 in the IBM Technical Reference Manual. You can just add the code below using your own line numbers

If you do not wish to restore Ctrl-Break just use the second routine. In .EXE programs Ctrl-Break is automatically restored when returning to DOS. In interpretive BASIC you will have to exit to DOS and reenter BASIC to restore it.

A nice note about this routine is that it remains in effect until disabled or until BASIC is exited. So if you wanted to CHAIN other programs, Ctrl-Break would still be shut down. [This code will work on all BIOS levels to date, but there is no guarantee it will work in future levels.]

```
100 '**SUB**
110 '= SAVE CONTROL BREAK POINTER =
120 '
130 DEF SEG = 0 'SET SEGMENT POINTER TO 0
140 OFF.LOWX = PEEK(&H6C) 'SAVE CTRL-BRK OFFSET
    LOW ORDR BYTE
150 OFF.HGHX = PEEK(&H6D) 'SAVE CTRL-BRK OFFSET
    HGH ORDR BYTE
160 SEG.LOWX = PEEK(&H6E) 'SAVE CTRL-BRK SEGMENT
    LOW ORDR BYTE
170 SEG.HGHX = PEEK(&H6F) 'SAVE CTRL-BRK SEGMENT
    HGH ORDR BYTE
171 DEF SEG 'RESTORE SEGMENT POINTER
172 RETURN
180 '**SUB**
181 '==== DISABLE CONTROL BREAK ====
182 '
130 DEF SEG = 0 'SET SEGMENT POINTER TO 0
190 POKE &H6C,&H53
    'SET NU CTRL-BRK OFFST LOW ORDR BYTE
200 POKE &H6D,&HFF
    'SET NU CTRL-BRK OFFST HGH ORDR BYTE
210 POKE &H6E,&H0
    'SET NU CTRL-BRK SGMNT LOW ORDR BYTE
220 POKE &H6F,&H0
    'SET NU CTRL-BRK SGMNT HGH ORDR BYTE
230 DEF SEG 'RESTORE SEGMENT POINTER
240 RETURN
245 '**SUB**
250 '==== RESTORE CONTROL BREAK ====
260 '
270 DEF SEG = 0 'SET SEGMENT POINTER TO 0
    ^[p0280 POKE &H6C,OFF.LOWX
    'RSTORE CTRL-BRK OFFST LOW ORDR BYTE
290 POKE &H6D,OFF.HGHX
    'RSTORE CTRL-BRK OFFST HGH ORDR BYTE
300 POKE &H6E,SEG.LOWX
    'RSTORE CTRL-BRK SGMNT LOW ORDR BYTE
310 POKE &H6F,SEG.HGHX
    'RSTORE CTRL-BRK SGMNT HGH ORDR BYTE
320 DEF SEG 'RESTORE SEGMENT POINTER
330 RETURN
```

Computer Ciphering

by
Steve Harrison

San Diego IBM PC User SIG

Let's start by looking at some simple ciphers which do not require anything more than a little "brainstorming". Consider a form that often appears in children's puzzles or on television game shows where,

REPSALON PEROMCUT (1)

represents a jumbled letter (cipher) version of the plain text words

PERSONAL COMPUTER. (2)

When enciphering, it is customary to arrange the cipher text in groups of five letters to eliminate clues given by retaining the plain text word structure. Thus, (1) would appear as the cipher:

REPSA LONPE ROMCU T (3)

The method of 'jumbling' the letters of the plain text message to form the cipher text should be known by the person to whom the cipher message is addressed. Single word 'jumble ciphers' used as a word puzzle are usually formed by a random distribution of the original plain text letters. Deciphering, or solving the word puzzle, is usually done by trial-and-error or by knowing the subject context.

If the jumbled letter cipher consists of more one word or word pairs, the cipher becomes more difficult to decipher. For example, who would think that the headline type cipher message

BIG MANS CRUISE DIPS EGO (4)

actually is the cipher text version of a plain text message? Not quite kid stuff, is it? To 'unjumble' (4), consider these clues:

1. The plain text message of (4) is related to computers.
2. You have seen all of the words in the plain text in this article.
3. There are six words in the plain text.
4. The plain text contains the name of a city.

Give (4) a try at deciphering. [Note: If you get stuck you will find the answer at the end of this article].

The 'jumbled letter' puzzle is actually one type of cipher in which all the letters of the plain text message are retained in the cipher text, but they are arranged by one of many methods of "letter jumbling". For convenience, let's call this group the Transposition Cipher group. Now let's look at some of the methods used to encipher plain text messages by transposing letters.

The Rail Fence:

The rail fence cipher is a popular and well known simple example of transposition ciphers. For example, the plain text message

HAVE FUN WITH COMPUTERS (5)

can be arranged as a 'rail fence'

```

H   N   O   R
A   U W   C M   E S
  V F   I H   P T
    E   T   U
  
```

(6)

The cipher text is then formed from (6) by taking the letters row by row in sequence to obtain the sequence

HNORAUWCMESVFIHPTETU (7)

By grouping, the cipher text becomes

HNORA UWCME SVFIH PTETU

Not a difficult way to encipher or decipher, is it?

The Columnar Tramps:

This is a columnar transposition cipher more advanced than those described previously. It uses a keyword and a prescribed method of arranging letters, rows or columns in the plain text. The addition of a key increases cipher security. Consider a plain text message whose letters are arranged in a 5 by 5 array, as shown in the following example for the plain text message;

"CIPHERS CAN KEEP FILE SECRETS"

```

C I P H E
R S C A N
K E E P F
I L E S E
C R E T S
  
```

(9)

using the keyword "PCSIG". The transposition is done by using the [alphabetical] order of the letters in the keyword to select columns for the cipher text:

```

  4 1 5 3 2
P C S I G
  
```

(10)

Thus, the letters in columns 1,2,3,4 and 5 when written out in a line appear as

ISELR ENFES HAPST CRKIC PCEE. (11)

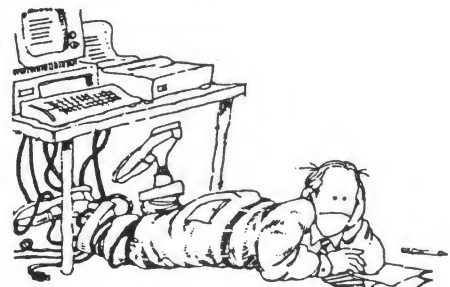
When the decoder receives the cipher, he counts the number of letters in it. Knowing the keyword is PCSIG, he divides this number by the number of letters in the keyword to determine the number of letters in each column. All array columns are equal in length which may require the insertion of miscellaneous letters or numbers in the plain text to fill out the last row of the array.

Now that you know the columnar 'tramp', try deciphering this short cipher using IBMPC as the keyword:

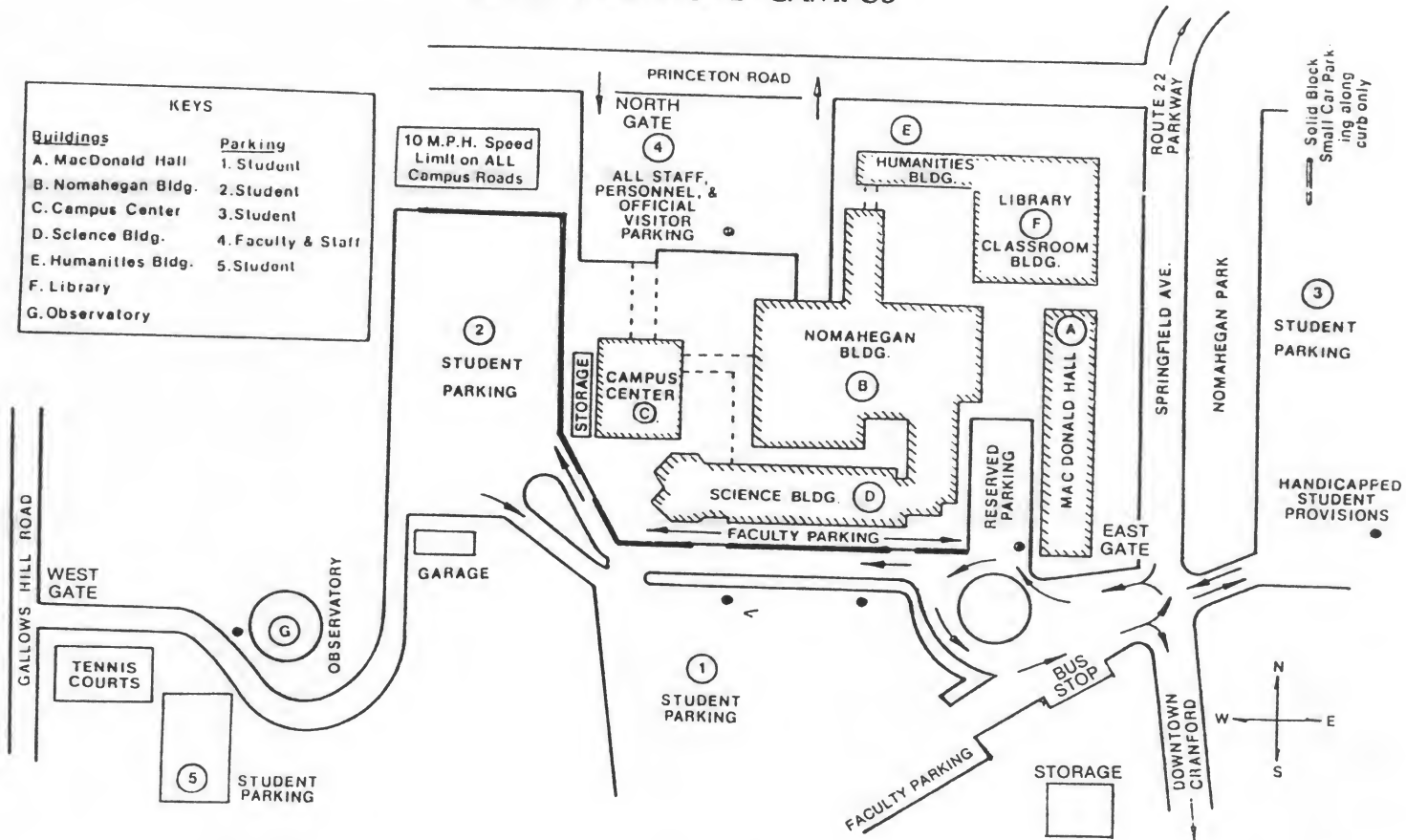
OTIRA SCATN UOGLN (12)

oh, by the way - the jumbled cipher (4) is the plain text

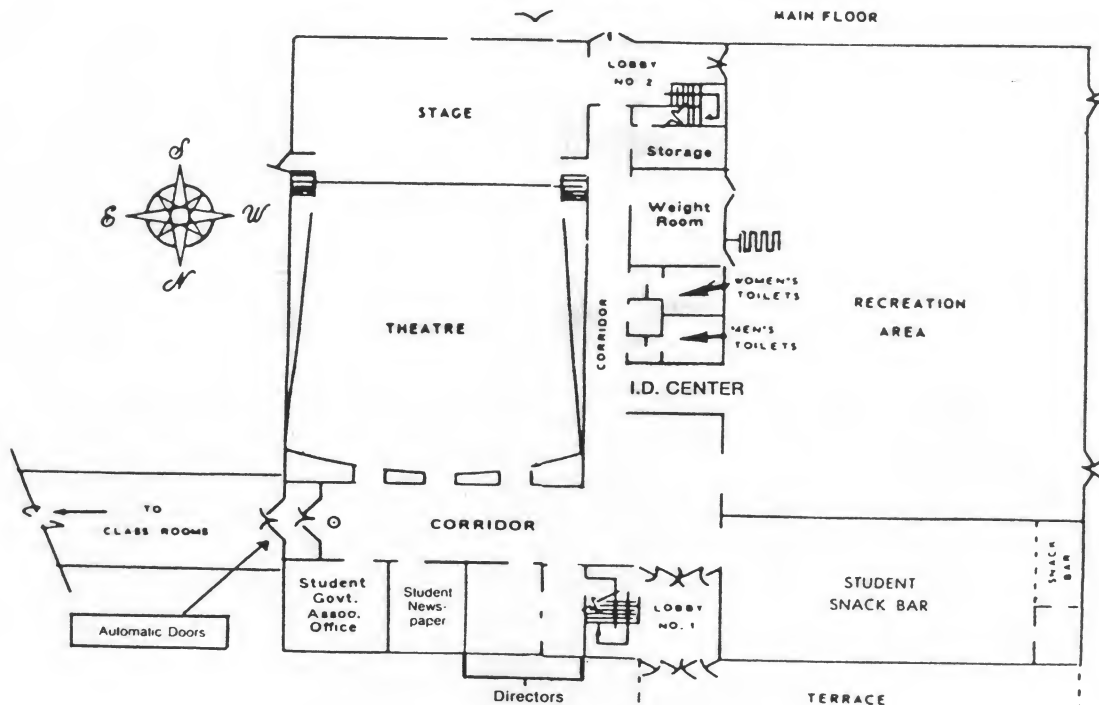
SAN DIEGO IBM PC USER SIG (13)



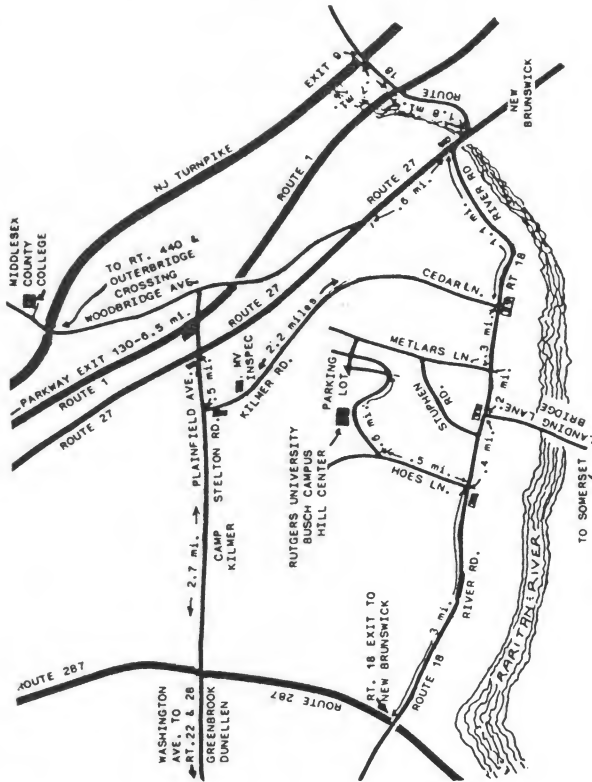
U.C.C. CRANFORD CAMPUS



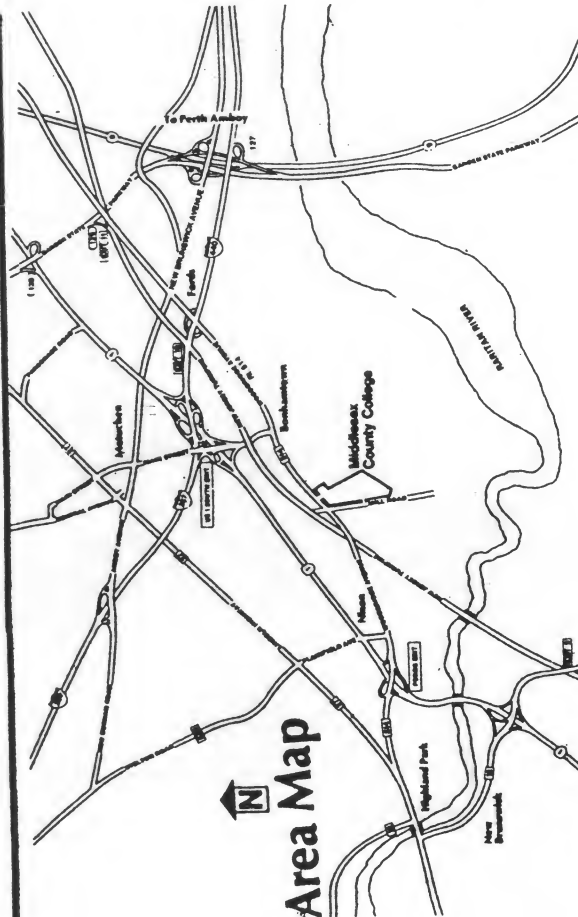
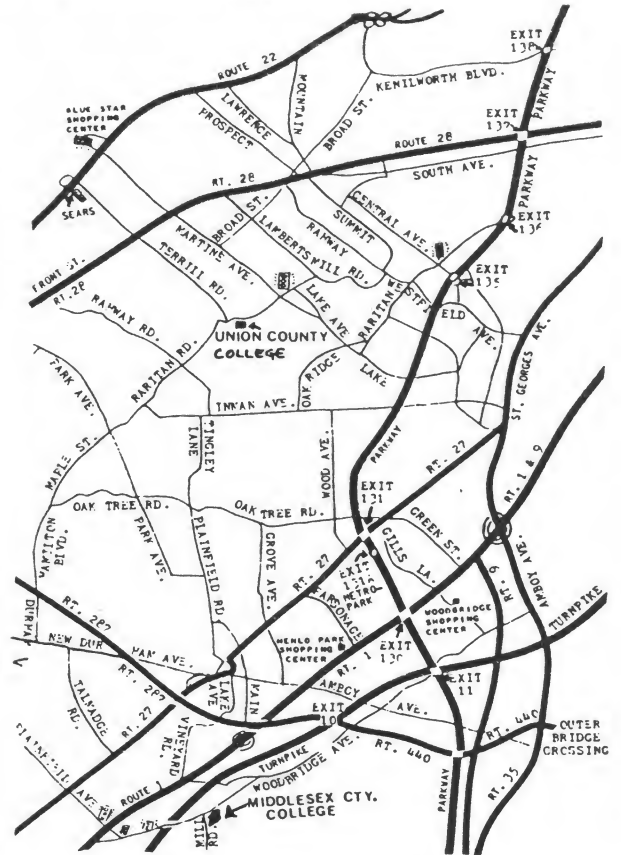
CAMPUS CENTER (C)



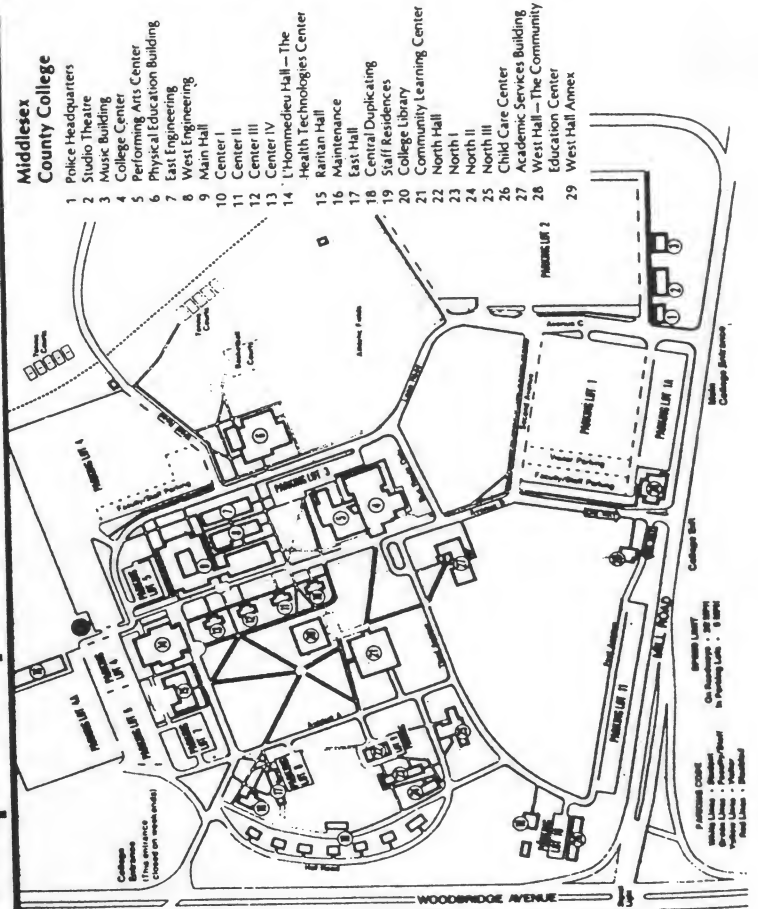
Map of Local Meetings



PLEASE NOTE THAT MAP IS NOT DRAWN TO SCALE IN ALL PLACES SO THAT GREATER DETAIL COULD BE GIVEN TO AREAS AROUND RUTGERS UNIVERSITY



Campus Map



CLASSIFIEDS

RANDOM ACCESS

FOR SALE: EPSON MX80 PRINTER. 80 CPS. USED ONLY A FEW HOURS BEFORE BEING REPLACED BY A DAISY WHEEL PRINTER. COMES WITH DISK SOFTWARE PROGRAM WHICH PROVIDES SIMPLE SCREEN SELECTION FOR FABULOUS PRINTING FEATURES: SUCH AS PIVOT PRINTING (ROTATE 90 DEGREES), LINE GRAPHICS, CONDENSED AND MANY MORE. BEST OFFER OVER \$250.00
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CENTRONICS NO. 779 DOT MATRIX PRINTER WITH DOCUMENTATION. WORKS GOOD. ONLY HAS UPPER CASE LETTERS. ASKING \$200. ITS A WORKHORSE, BUT LITTLE USED.

MAGAZINES AS FOLLOWS:
INTERFACE AGE- JAN 81 TO CURRENT ISSUE

CREATIVE COMPUTING- JAN 80-MAY84

PERSONAL COMPUTING OCT78-DEC83

SOFTTALK AUG81-FEB82

C.A.L.L.APPLE OCT 80- JAN 84

NIBBLE VOL 1-#8 THRU VOL 4-#8

AN OCCASIONAL ISSUE MAY BE MISPLACED. ALSO HAVE CLIPPINGS FROM EARLIER ISSUES OF SOME OF ABOVE. SOLD ONLY AS SETS TO HIGHEST OFFER.

CALL DICK BRADY 201-647-0425

Submitting Articles To ACG-NJ News

Although not necessary, typed copy is appreciated. Text of the NEWS is 50 characters per line (PICA typewriter, 10 pitch ball or 10 char./inch printing). Text is SINGLE SPACED. Diagrams or drawings should be done in black ink on white paper. Program listings should be liberally commented to aid the reader. All typing and listings should be done with a black ribbon on white paper (no blue!).

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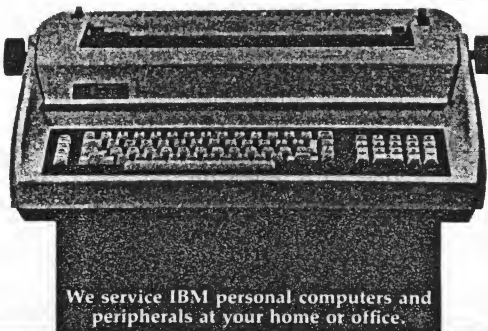
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We service IBM personal computers and peripherals at your home or office.

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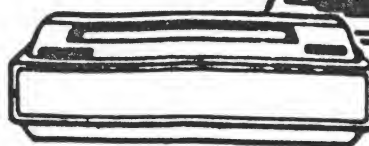
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November 3rd
is

CHUGCON

84



The Capitol Heath/Zenith Users' Group is inviting everyone to its third annual Eastern Regional Users' Conference. It is open to the public and free to all. We would appreciate it a very much if you could include all or part of the enclosed notice in your October newsletter and announce our CHUGCON 84 at your next group meeting.

If possible, room reservations should be made by 20 October and meal reservations by 24 October.

If you have any questions about CHUGCON 84, do not hesitate to call me at (703)455-6265.

Richard J. Buck, Jr.
Publicity Chairman
9701 Tiny Ct
Burke, Va. 22015

It's not too early to begin making plans to attend the 3rd Annual Capitol Heath User's Group Conference -- CHUGCON-84.

The day-long conference for Heath/Zenith compatible people will feature the latest in software and hardware, workshops and demonstrations, and a swapmeet. It's all FREE -- there's no admission charge and no vendor fee!

Among the workshops confirmed so far are: C - The Programming Language, Z-DOS/MS-DOS 2.0, Speech Recognition for Personal Computers, Genealogy, Warrantees and Contracts, Copyright Laws, Lotus 1,2,3, Financial Planning with Lotus 1,2,3, and dBase II. Remember, these and all the other workshops and demonstrations are FREE. Sessions will be available on all levels -- novice, intermediate, or expert.

CHUGCON-84 features over 5800 square feet of carpeted exhibit space. At last count, more than 20 vendors had signed up. Requests for exhibit space are being accepted on a first come, first serve basis. There is no display fee and tables are provided at no charge. If you want electricity, the hotel has a minimum charge of \$47.50 and a layout closing date of October 15th. For further details, contact Dave Anthony (703) 979-7338, 7 - 9 p.m., EDT.

This year's swap meet will be bigger and better than ever. If you have hardware, peripherals, or supplies you no longer want, bring them to trade or auction. If you need parts, bring a list! Swapmeet tables are free, but space must be reserved in advance. For more information on the swapmeet or to reserve space, contact Bruce Gerwiz (301) 422-3782, 7 - 9 p.m., EDT.

EVENTS

CP/M USERS GROUP MEETING

First Friday of every month. Held at UNION COLLEGE, Scotch Plains CAMPUS, Raritan Road, Scotch Plains. Business and Engineering Technology Building, Rooms 237, 238 and 239. 7-10 PM.
For information call: David Wrobel 201 264-8242

IBM-PC USERS GROUP MEETING

Same as CP/M UG above.
For information call: Sol Libes 201 277-2063

TRS-80 USERS GROUP MEETING

Same as CPM/UG above.
For information call: Jerry Entin 201 925-2494

APPLE USERS GROUP MEETING

Fourth Friday of every month. Held at Rutgers University, Hill Center, BUSH CAMPUS, Piscataway, New Jersey, Room 116.
For information call: Seymour Joseph 201 463-0078

680x USER GROUP MEETING

Same as APPLE UG, Room 013.
For information call: Mark Sproul 201 246-3749

COMMODORE VIC/PET/64 USER GROUP MEETING

Same as APPLE UG Room 013
For information call: Joe Pylka 201 359-3862

JERSEY ATARI COMPUTER GROUP

Second Saturday of every month. 10AM - 12 noon, with dealer sales starting at 9:15.
BELL LABS Auditorium, Murray Hill, New Jersey

NEW YORK AMATEUR COMPUTER CLUB

For information call: 212 864-4595

CENTRAL NEW JERSEY COMPUTER CLUB

Meets 4th Friday of the month at TRENTON STATE COLLEGE
write: Richard Williams
Rd#1 Box 147, County Route #518
Hopewell, New Jersey 08525

Advertising Policy

ACG-NJ members may insert non-commercial ads in the News at no charge. Commercial advertising in the News is limited to 25% of the issue. The Editor reserves the right to hold ads if total advertising exceeds this limit.

All ads for placement in the News should be sent to, or dropped off, by the deadline listed to:

Art Fowler
& Masters Electronic Supply Inc.
17 Colfax Street
Raritan, New Jersey 08869
201 725-3533 day
201 297-9423 nite

ALL ADS MUST BE IN WRITING! NONE OVER THE PHONE!!

PAYMENT MUST ACCOMPANY ALL COMMERCIAL ADVERTISING.
Checks should be made payable to: ACG-NJ Inc.

COMMERCIAL ADVERTISING RATES	1 time	6 times
Full Page (7" x 10") W x H	\$95.00	\$475.00
Half Page (7"x5" or 3 1/2"x10")	\$48.00	\$240.00
Quarter Page (3 1/2"x5")	\$24.00	\$120.00
Eighth Page (3 1/2"x2 1/2")	\$12.00	\$60.00

Half tones/photos are \$10.00 additional charge/issue. All ads must be CAMERA-READY (what we see is what we get!) and be black ink on white paper.

COMMERCIAL CLASSIFIED ADS

Rates are \$0.50/line. Line is 50 characters wide including spaces (3 1/2"). Blank lines between copy and borders also count as a line of text.

ACG-NJ GENERAL MEETING NOV. 2 AT 8 P.M.

Middlesex County College Edison, N.J.

For information on the following User Group Meetings, call the number listed below.

NY Area Small Interest Group

Bob Radcliffe 201 653-7615

Northern NJ Heath User Group

Heath Electronic Center Rt. 4, Fairlawn, N.J.

Apple Union Subgroup

Tom Nowelsky 201 686-0700

New York Amateur Computer Club

212 864-4595

Northern New Jersey Amateur Computer Club

Herman Sachs 201 797-1622

Jersey Atari User Group

Rich Kushner 201 638-8732

South Jersey Heath User Group

Heath Electronics Center, Rt. 35, Ocean, N.J.

LOCAL CBBS's

The following is a listing of the Computer Bulletin Board systems in the NJ/NY/PA metropolitan area. System operators who would like to have their systems added to this list should call: Sol Libes (201)277-2063.

RIBBS= Remote Interactive Bulletin Board System
has software which can be downloaded (CP/M)
ABBS = Apple Bulletin Board System
BBS = Bulletin Board System only

ACG-NJ RIBBS	201-272-1874 Cranford
ACG-NJ ABBS	201-912-3887 Piscataway
Rutgers Univ. RIBBS	201-932-3879 Piscataway
Forum 80 Linden	201-486-2956 Linden
Forum 80 Monmouth	201-528-6623 Red Bank
Lehigh Valley RIBBS	215-398-3937 Allentown PA
Jonathan's ABBS	609-983-5970 Marlton
Computer Corner ABBS	201-835-7228 Pompton Plains
Ralph's ACCESS	201-891-7441 Wyckoff
Communique 80	201-992-4847 Livingston
Starcom 5	201-627-5151 North Jersey
Forum 80 South Jersey	609-468-5293 South Jersey
South Jersey Heath	201-775-8705 Ocean
Lakewood Heath BBS	201-363-3122 Lakewood
Connection-80	201-842-7644 Lincroft
Hermes 80	215-434-3998 Allentown PA
PACS Online	215-342-4013 Philadelphia
Info System ABBS	215-237-6908 Philadelphia
Villanova RIBBS	215-527-6087
Philly ABBS	215-628-3134
Del Valley Comp. Society	215-364-2180
West Chester RIBBS	215-855-3809
ABBS	609-228-1149
SEXBBS	201-992-4847
Long Island ABBS	212-448-6576
L.I. Computer Assoc. BBS	516-561-6590
CBBS CP/M (rb)	516-698-8619 Long Island
Color Computer BBS	212-441-3755 Woodhaven, N.Y.

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Vice-President	Bob Todd	(215)	752-4604
Treasurer	David Raibert	(201)	529-3595
Corresponding Secy.	Bruce Blakeslee	(201)	233-3185
Recording Secy.	Andrew Bender	(201)	652-7536

Directors

	Term Ends	Phone
Bill Earnest	Dec. 84	(215) 398-1634
Jeff Kashinsky	Dec. 84	(201) 366-3114
Rolf Levenback	Dec. 84	(201) 561-8261
Richard Tillbrook	Dec. 84	(201) 753-2266
Ray Glueck	Dec. 84	(201) 227-5361
Joe Pylka	Dec. 85	(201) 359-3862
Alan Katz	Dec. 84	(609) 443-3184
Bill Klotz	Dec. 85	(215) 945-8264

Staff

Newsletter Librarian Dan Chiswick (201) 232-2007
 Other Staff positions open!

User Group Coordinators

SIG/M, CP/M	David Wrobel	(201)	264-8242
TRS-80	Jerry Entin	(201)	925-2494
SIG68/680x/COCO	Mark Sproul	(201)	246-3749
APPLE	Seymour Joseph	(201)	463-0078
6502, KIM	Keith Sproul	(201)	821-4828
NORTHSTAR	Randy Reitz	(201)	635-5642
VIC-20	Leonard Baskin	(201)	335-2587
CBM/PET/COM64	Joe Pylka	(201)	359-3862
IBM-PC	Sol Libes	(201)	277-2063
68000	Keith Sproul	(201)	821-4828

Other People to Contact

Pascal	Rod Montgomery	(609)	924-7086
Cosmac/1802	Richard Rutkowski	(201)	757-5818
Heath	Charles Dingovsky	(201)	655-0533
poly-88	Rolf Levenbach	(201)	561-8261
S-100	Dennis Dupre'	(201)	464-8086
Atari	John Palinskas	(201)	873-3430
Imsai	David Wrobel	(201)	264-8242

Important Info

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We maintain a newsletter exchange program with other computer and related clubs. To join the exchange send a copy of your newsletter to the editor.

The Amateur Computer Group of New Jersey Inc. (ACG-NJ) is a non-profit educational corporation. Membership in the ACG-NJ for 1984 is \$14.00 in the US and Canada, and \$27.00 foreign (air mail), US currency, and includes a monthly subscription to the ACG-NJ NEWS. Membership applications may be obtained from:

Amateur Computer Group of New Jersey
 P.O. Box 319
 South Bound Brook, N.J. 08880-0319

ACG-NJ NEWS STAFF

Editor	Neil M. Sanford
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Contributing Editors	Sol Libes Bill Chin Steve Leon

Please send all items relating to the newsletter (e.g items for classified column, user group news, calendar of events, etc.) to:
 Neil Sanford, 6 Longfellow Dr. Colonia, N.J. 07067
 or call:
 (201) 382-7979